

-5 CAAAC
 1 ATGGCGGCTCCACTAGGGGGTATGTTTCTGGGCAGCCACCCGGTCCCCCTCAGGCCCCG
 1 M A A P L G G M F S G Q P P G P P Q A P
 61 CCGGGCCCTTCGGGGCAAGCTTCGCTTCTTCAGGCAGCTCCAGGCGCTCCTAGACCTTCC
 21 P G L P G Q A S L L Q A A P G A P R P S
 121 AGCAGTACTTTGGTGGACGAGTTGGAGTCATCTTTCGAGGCTTGCTTTGCATCTCTGGTG
 41 S S T L V D E L E S S F E A C F A S L V
 181 AGTCAGGACTATGTCAATGGCACCGATCAGGAAGAAATTCGAACCGGTGTTGATCAGTGT
 61 S Q D Y V N G T D Q E E I R T G V D Q C
 241 ATCCAGAAGTTTCTGGATATTGCAAGACAGACAGAATGTTTTTCTTACAAAAAGATTG
 81 I Q K F L D I A R Q T E C F F L Q K R L
 301 CAGTTATCTGTCCAGAAACCAGAGCAAGTTATCAAAGAGGATGTGTCAGAACTAAGGAAT
 101 Q L S V Q K P E Q V I K E D V S E L R N
 361 GAATTACAGCGGAAAAGATGCACTAGTCCAGAAGCACTTGACAAAAGCTGAGGCATTGGCAG
 121 E L Q R K D A L V Q K H L T K L R H W Q
 421 CAGGTGCTGGAGGACATCAACGTGCAGCACAAAAAGCCCGCCGACATCCCTCAGGGCTCC
 141 Q V L E D I N V Q H K K P A D I P Q G S
 481 TTGGCCTACCTGGAGCAGGCATCTGCCAACATCCCTGCACCTCTGAAGCCAACGTGAGCA
 161 L A Y L E Q A S A N I P A P L K P T *
 541 aagggcagag gcagttggcc tatgagtggg ctgatgcgtg aggttgcca cacattcctt
 601 cctgtggact tga cattttg gaagaa cctt ttgccagata atgagttcat tttagtttta
 661 tgctccatt gaaaaatttt ccactatttt tataagctgt taatttcttg agtactttat
 721 aacatgtctg tagcttggat aaaccaagta agtatttttt ttgtcttt agcaaagttt
 781 agactgtgaa tatgatgaca cagattcttt ttatgggtgg ctttgcttgt tttaaatttt
 841 tgcattgact ttcatcttt tatgtgtgtt tctgtagt ttatccgaag gaaaagagta
 901 tagtagcctg agaatcagga gatgggagtt ttatcgtag gccttatgat aattaccccg
 961 cgggtggtgt tagaaaagta tgaattttg cttgtttta agactttgaa ctacctcaag
 1021 aagaggaatc taatacaata ttgtaattgt ttccagagct ctacagaatga ggatttttt
 1081 gtaaataggt cagaagacga tggaaactgt cttgggtagt atagtaattct ta cagtagga
 1141 tccttaggtt gatgctgact tctgttggg gtatgtttat attttatgtg gtgttta ctt
 1201 ttttttttg acatagaagg atatagtggt agcagtata cgctaacatt cattacattc
 1261 tgca gtaatg aatctg

Fig 1A

	MAAXLGGMFXGQPPGPPXXKPPGLPGQASLLQAAPGAPRPS	Majority
	20 20 30 40	
1	MAAPLGGMHSSQPPGPPQAPPGGLPGQASLLQAAPGAPRPS	Human
1	MAASLGGMHETGPPGPPPPPPGLPGQASLLQAAPGAPRPS	Mouse
1	MAASNESG-----	Drosophila
	XSTLVDELESSFEACFASLVSQDYVNGTDQEEIIRTGVDDC	Majority
	50 60 70 80	
41	SSTLVDELESSFEACFASLVSQDYVNGTDQEEIIRTGVDDC	Human
41	NSTLVDELESSFEACFASLVSQDYVNGTDQEEIIRTGVDDC	Mouse
8	GGMLVDEFFREAEQSCLLTETKQEPNSGTNKEEIDLELVQKT	Drosophila
	IQKFLDIARQTECFFLQKRLQLSVQKPPQVIKEDVSELRX	Majority
	90 100 110 120	
81	IQKFLDIARQTECFFLQKRLQLSVQKPPQVIKEDVSELRL	Human
81	IQKFLDIARQTECFFLQKRLQLSVQKPPQVIKEDVSELRS	Mouse
48	TNRFTLVVARQMEAFFLQKRFLLVSTLKEPYMLIEDENQDLST	Drosophila
	ELQRKDALVQKHLTKLRHWQQVLEDIN--VQHK-----	Majority
	130 140 150 160	
121	ELQRKDALVQKHLTKLRHWQQVLEDIN--VQHK-----	Human
121	ELQRKDALVQKHLTKLRHWQQVLEDIN--VQHK-----	Mouse
88	ETLQREALLOKHYNELTEWKACLSDLIQQGVHSRPTPPIGS	Drosophila
	-----KPADMPOGSLAXLEQASANIPA	Majority
	170 180 190 200	
152	-----KPADIPOGSLAYLEQASANIPA	Human
152	-----KPADMPOGSLAFLEQASANIPA	Mouse
128	GMLOGPGGGMPPMGGTPPRPGMMRGMPPGAMQPGGPNQES	Drosophila
	P-----LKPT	Majority
	210 220	
174	F-----LKPT	Human
174	F-----LEQT	Mouse
168	PHMLQAQQMQQLRMISRQNPKEK	Drosophila

Fig. 1B

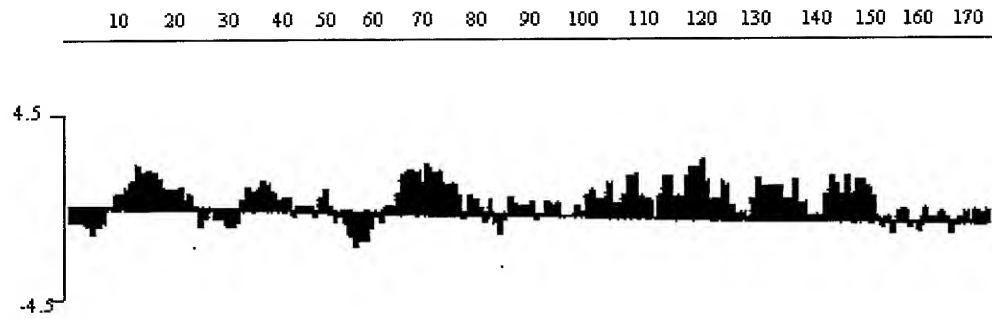


Fig. 2A

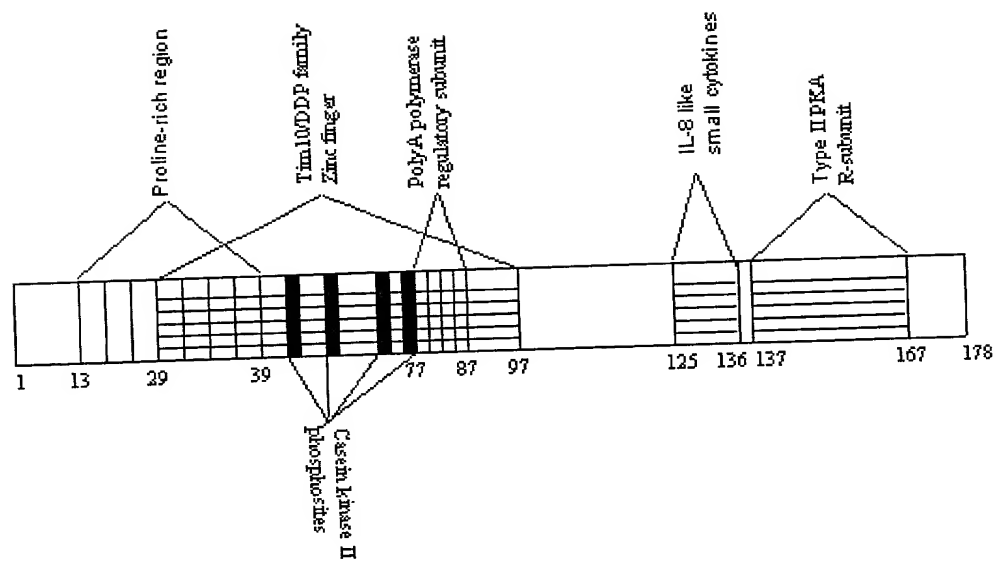


Fig. 2B

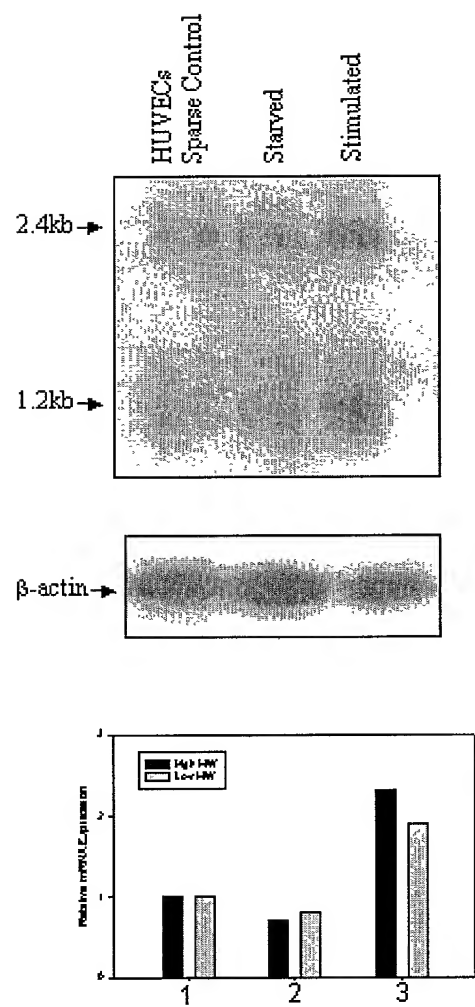


Fig. 3A

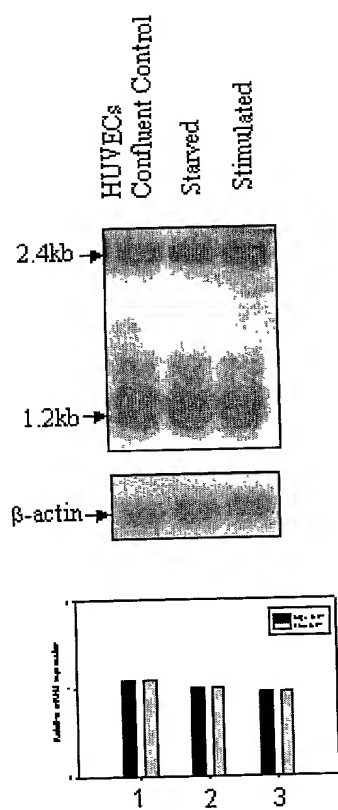
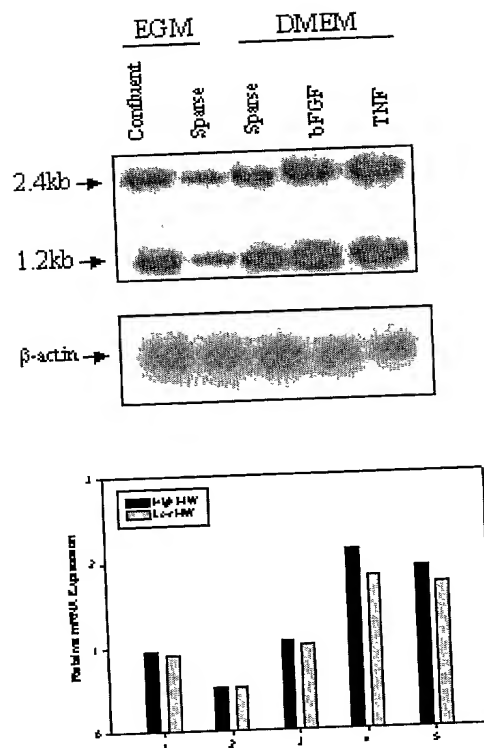
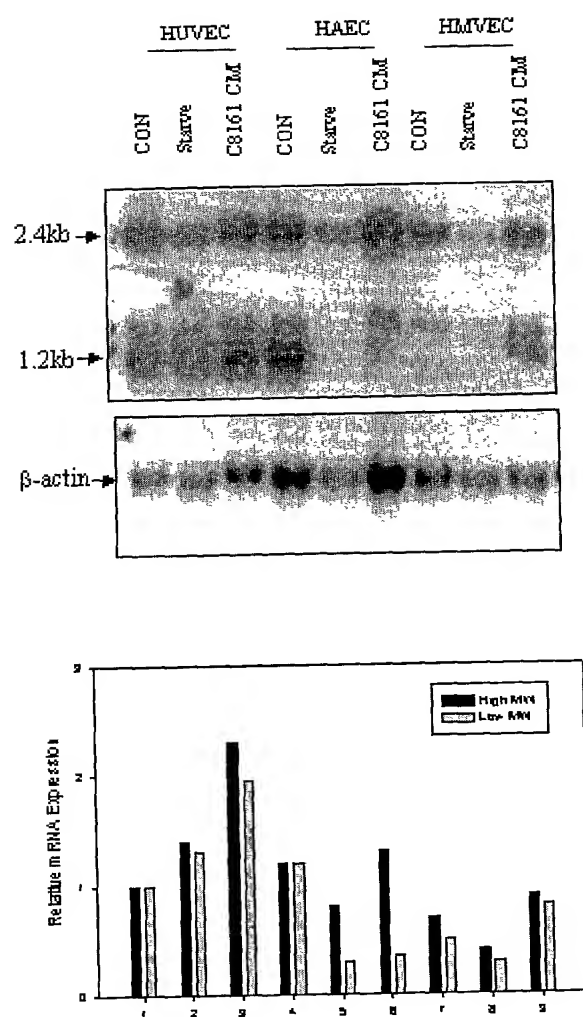
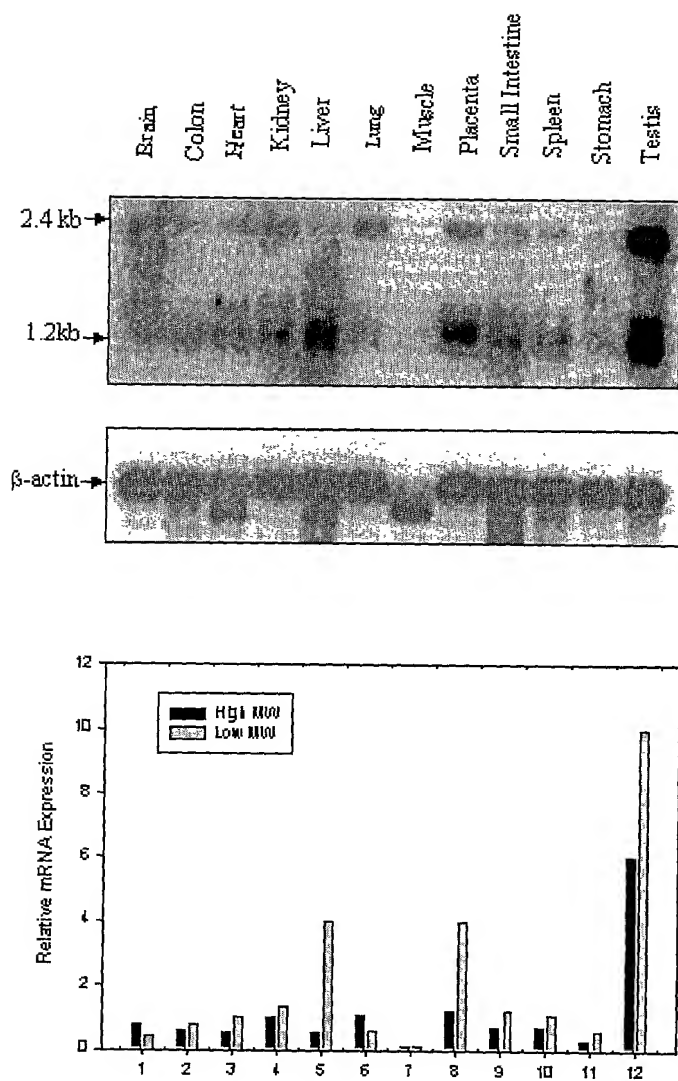


Fig. 3B

**Fig. 4**

**Fig. 5**

**Fig. 6**

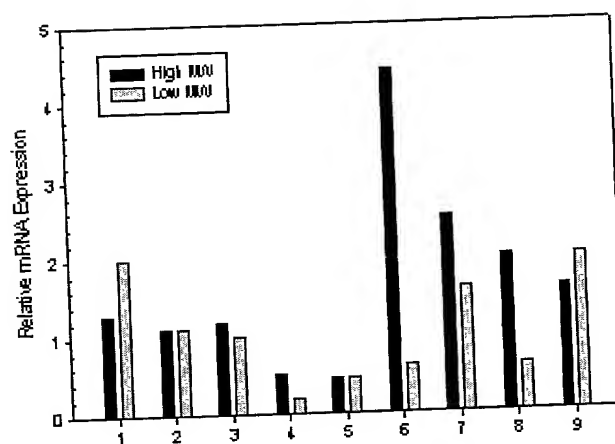
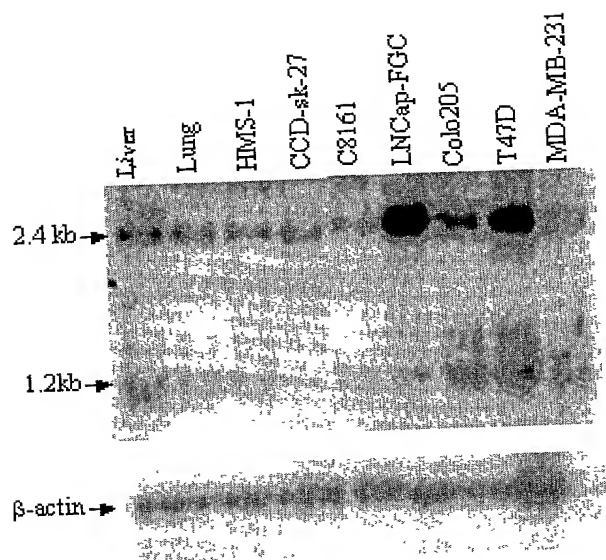


Fig. 7

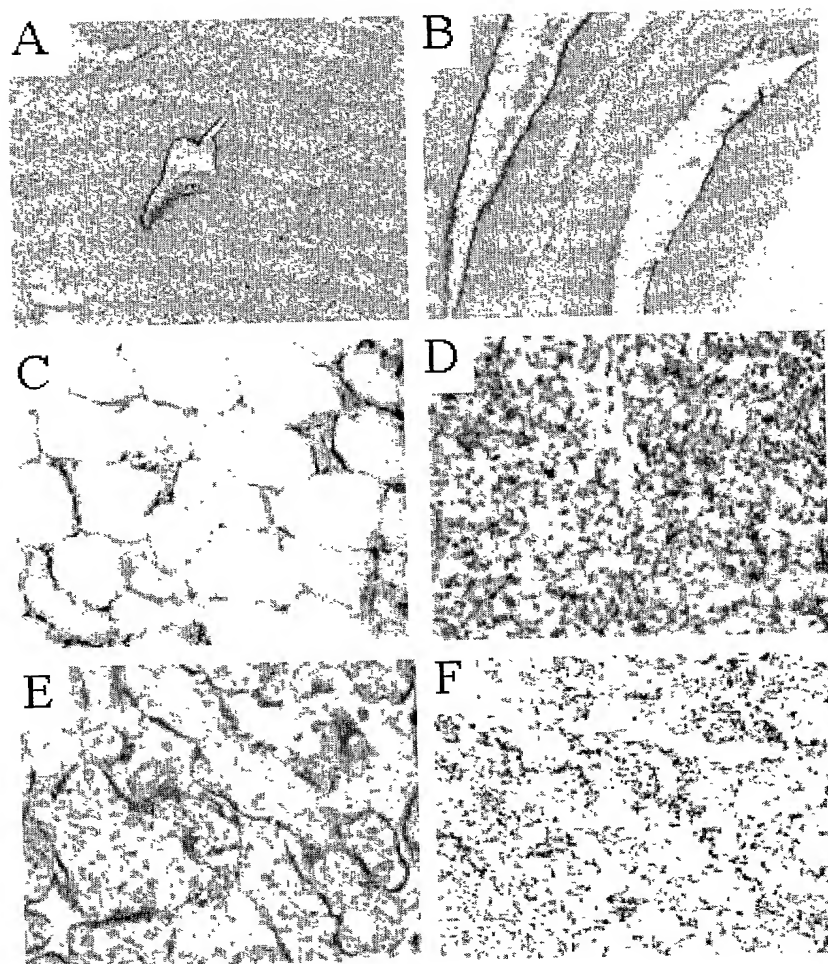


Fig. 8

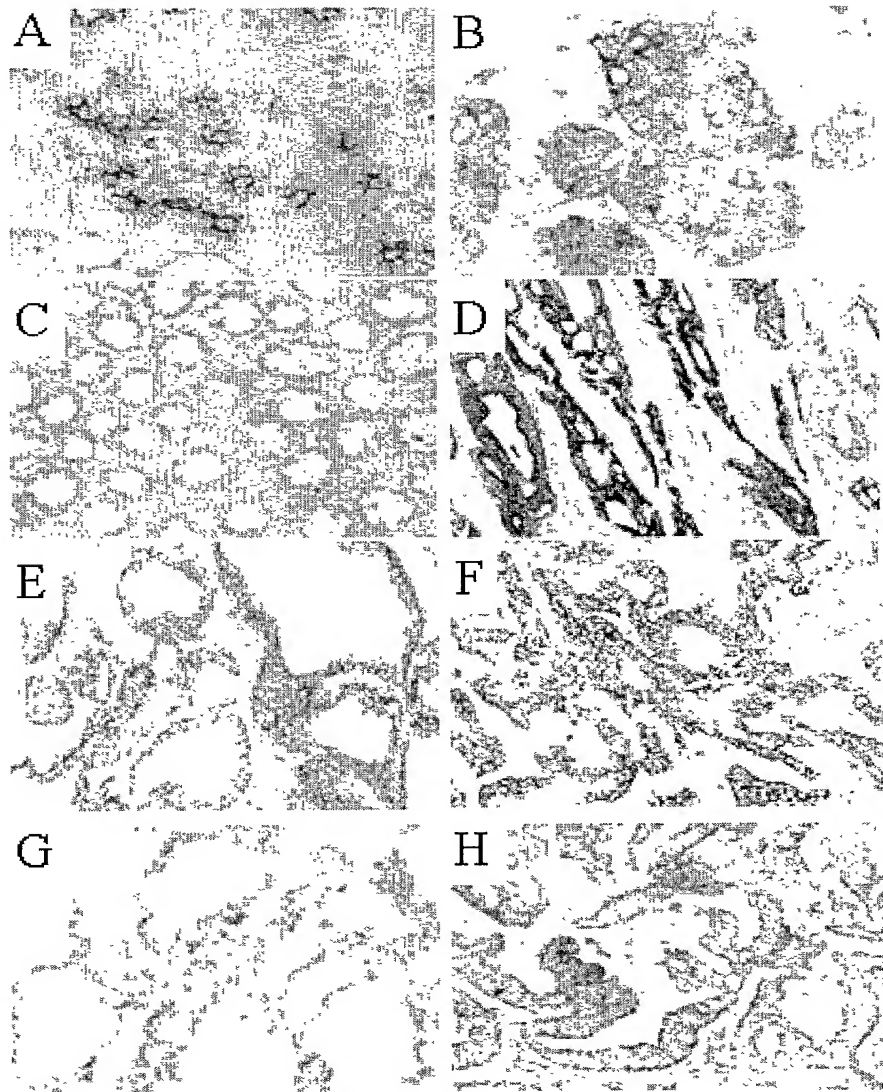


Fig. 9

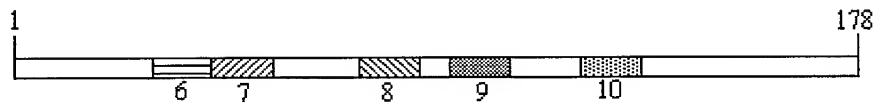


Fig. 10

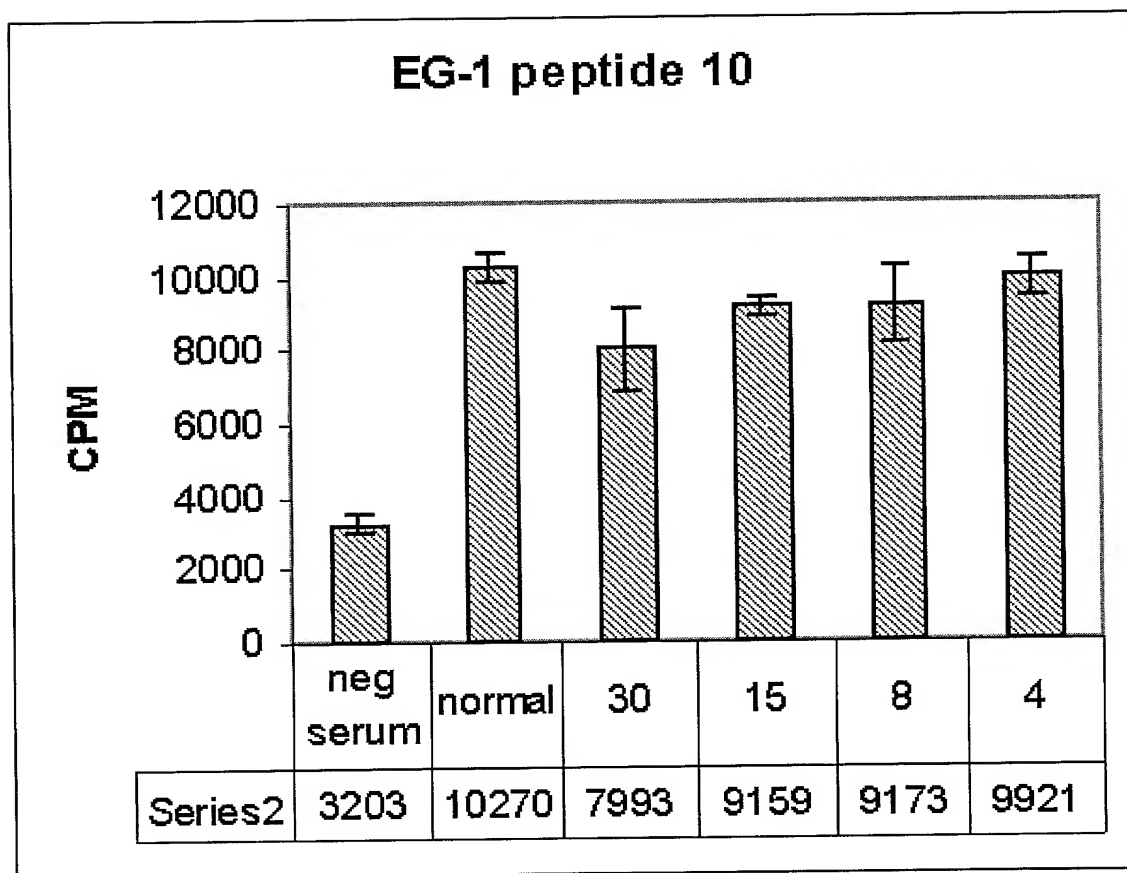


Fig. 11

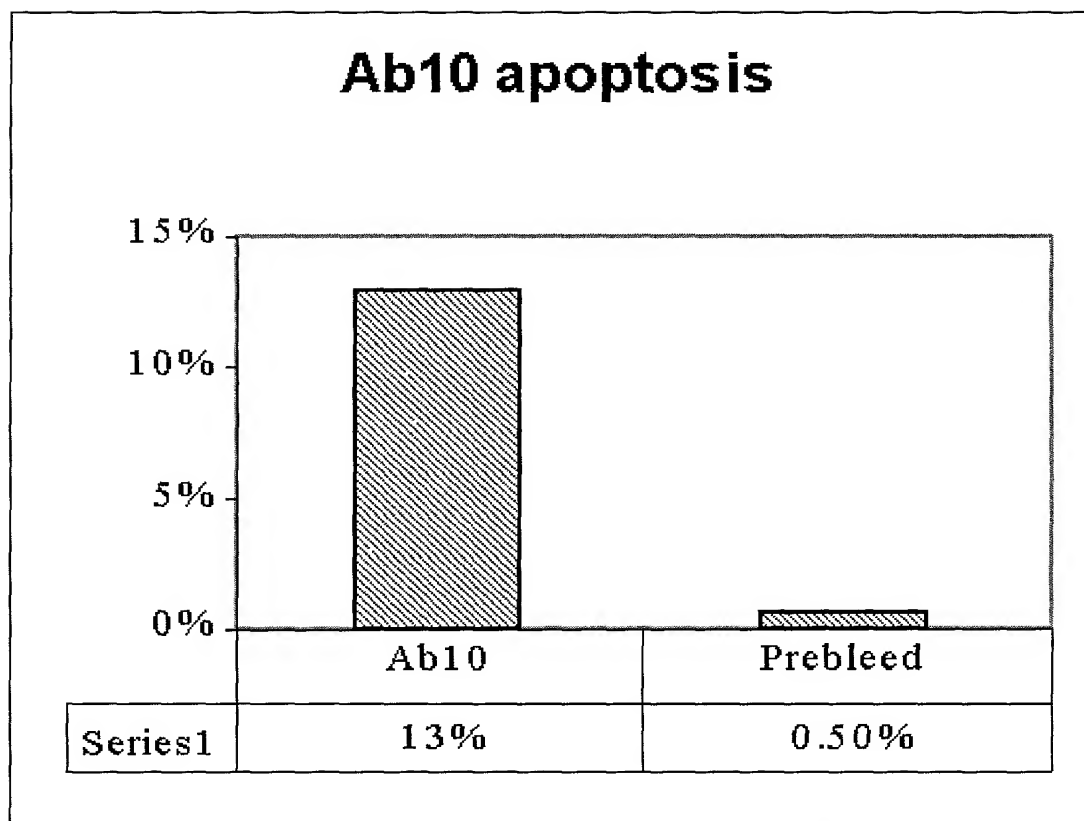
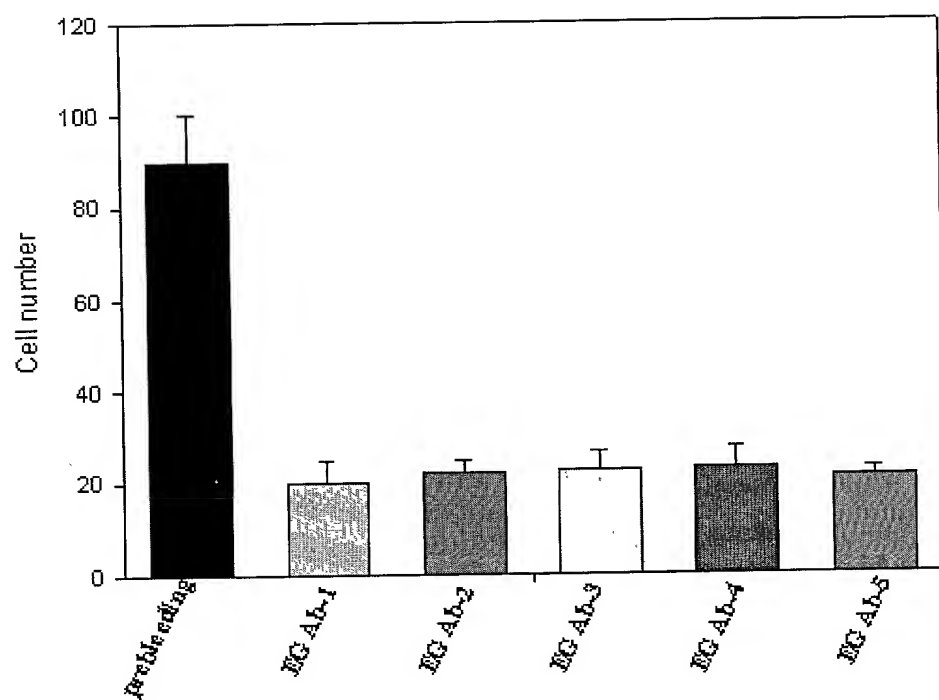


Fig. 12

**Fig. 13**

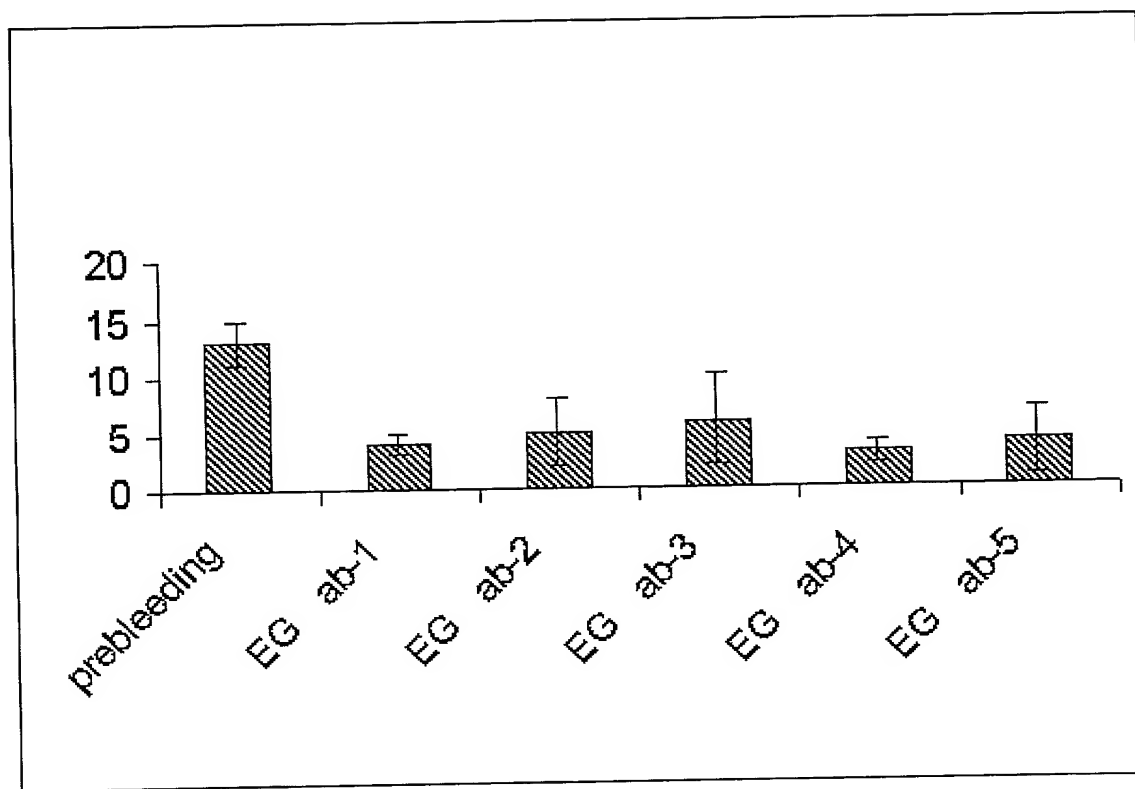


Fig. 14

Fig. 15A

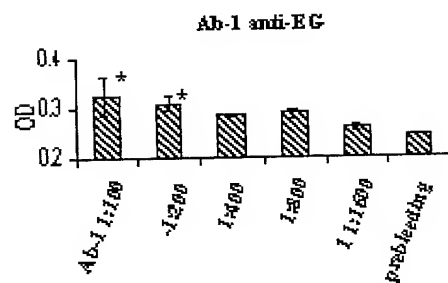


Fig. 15B



Fig. 15C

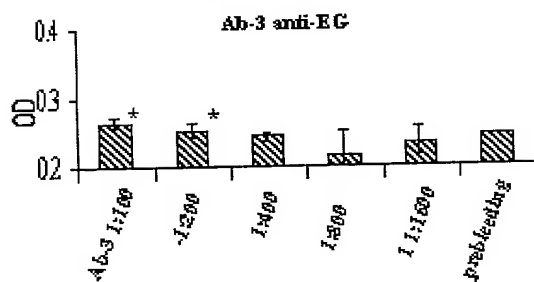


Fig. 15D

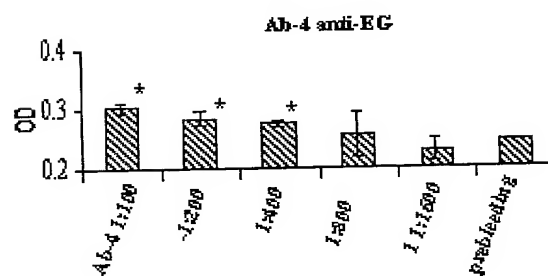


Fig. 15E

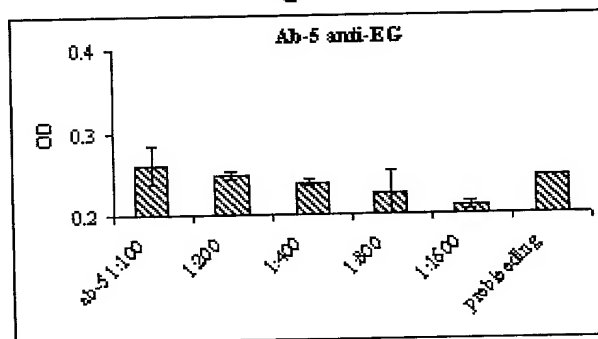
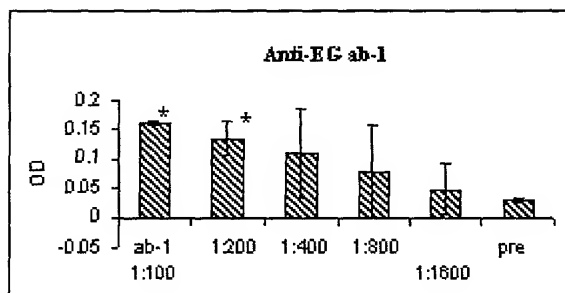
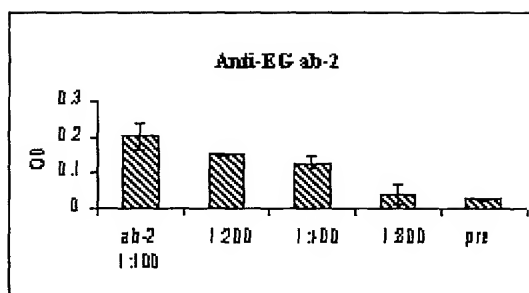
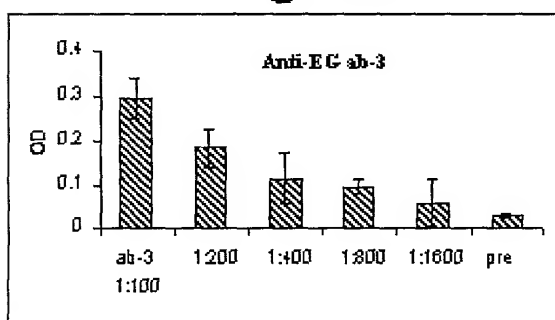


Fig. 16A**Fig. 16B****Fig. 16C****Fig. 16D**